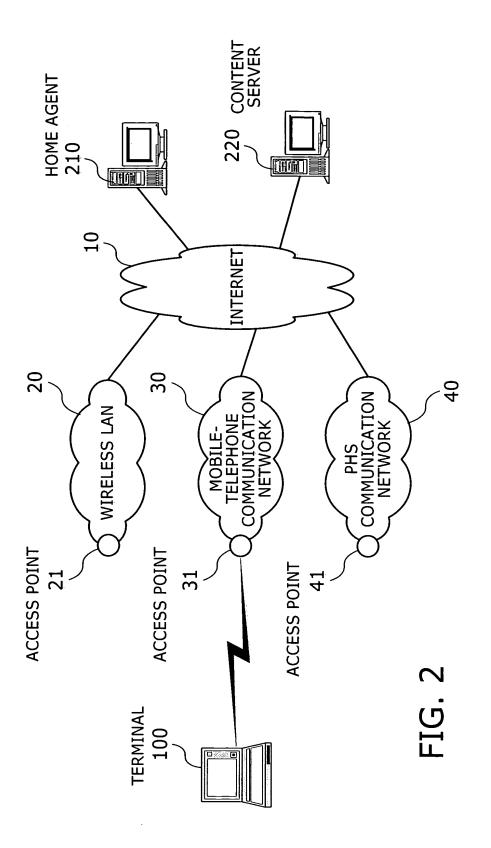
Takeshi Saito et al. GREER, BURNS & CRAIN, (Patrick G. Burns) Ref. No. 0828.69843 (312) 360-0080 Sheet 1 of 27 CONTENT STORAGE UNIT **2**b **NETWORK** HIGH QUALITY MEDIUM QUALITY LOW QUALITY **QUALITY-MANAGEMENT** INFORMATION **S**6 **S**2 CONTENT SERVER 1 Mbps> & ≧100 Kbps DETERMINE QUALITY OF CONTENT BANDWIDTH in 100 Kbps> ≧1 Mbps GENERATE TRANSMIT CONTENT CONTENT NETWORK INTERFACE 2a NET-WORK 9 NETWORK INTERFACE#2 NETWORK INTERFACE#3 NETWORK INTERFACE#1 TERMINAL 1a <u>1</u>p <u>၂</u> AVAIL-UNAVAIL-ABLE 1 AVAILABLE ABLE INTERFACE INFORMATION TABLE 9.6 kbps **S**4 BAND-WIDTH 64Kbps 11Mbps AVAILABLE INTERFACES INTERFACE TO BE USED COMMUNI-CATION BANDWIDTH DETERMINE NOTIFICA-TION OF S1 DETECT DATA NETWORK INTERFACE **S**2 #1 #3 #5

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FIG. 1

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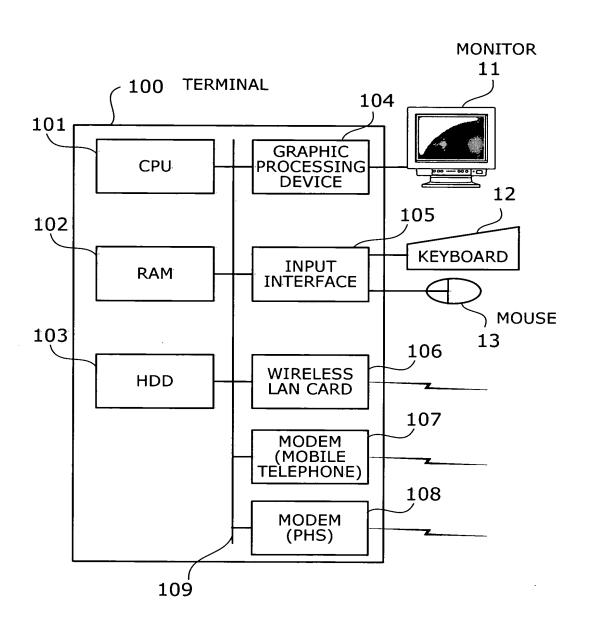


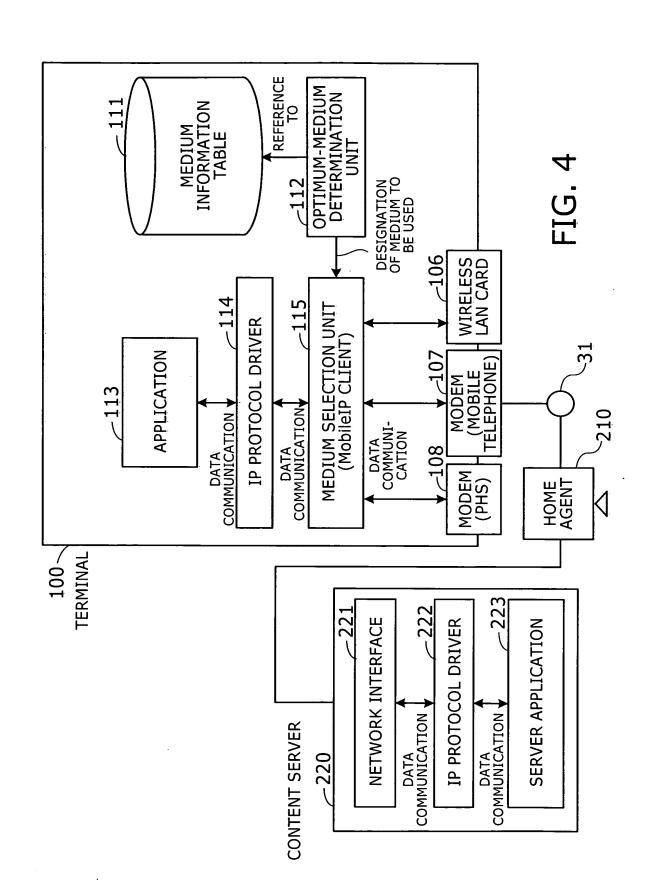
FIG. 3

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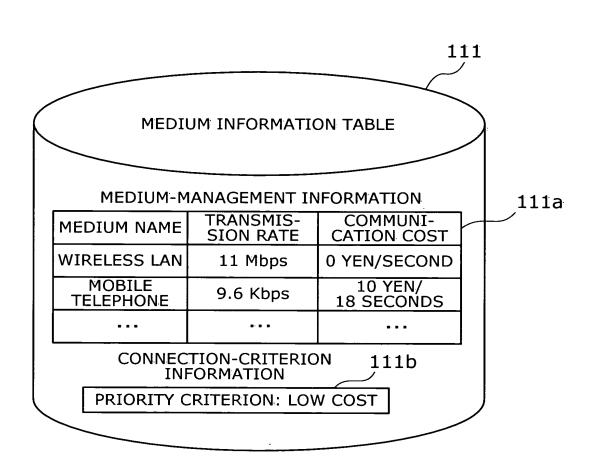
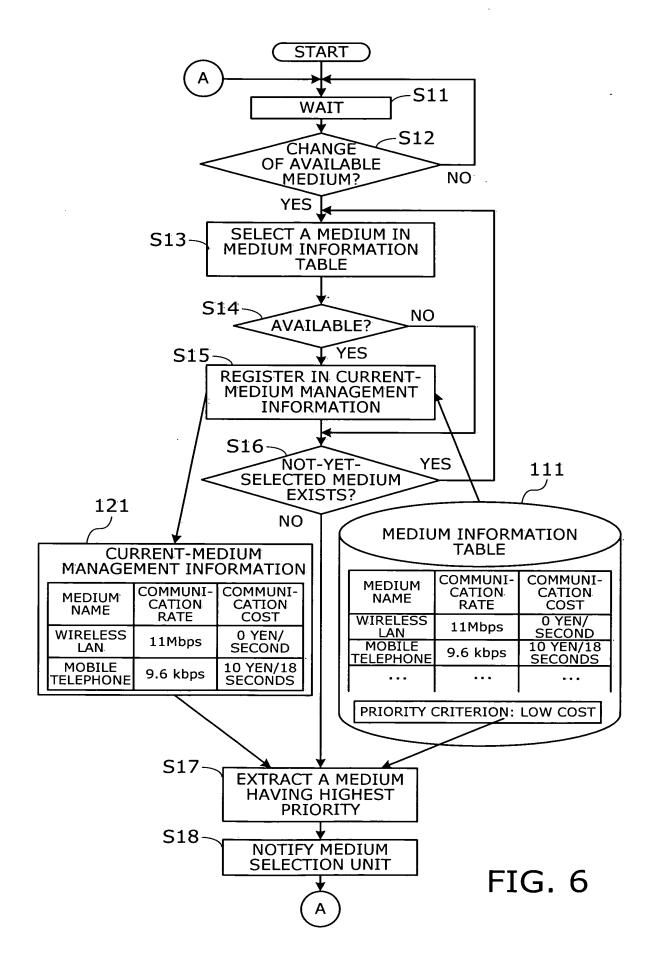
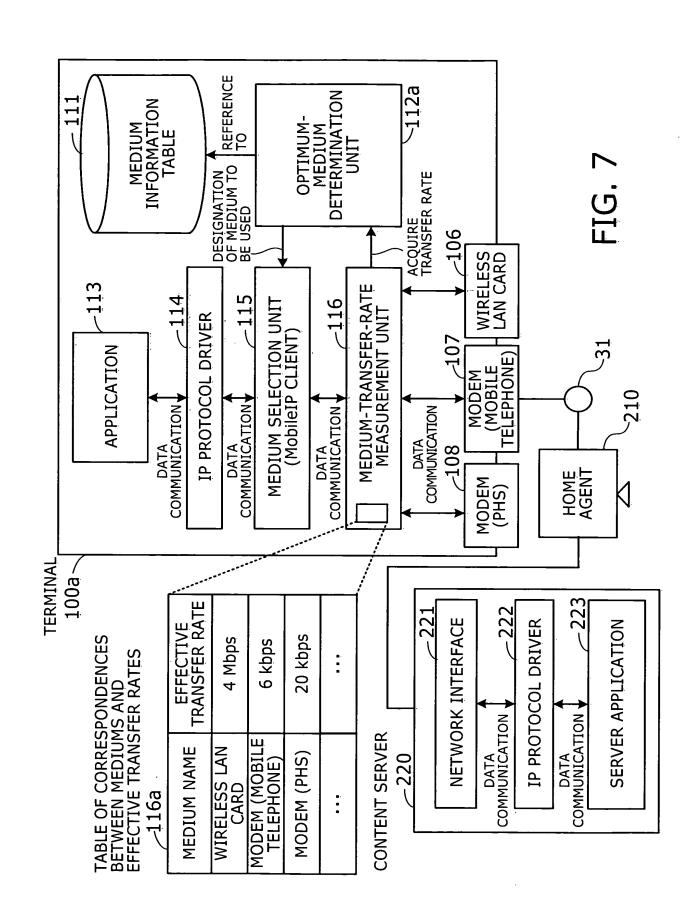


FIG. 5

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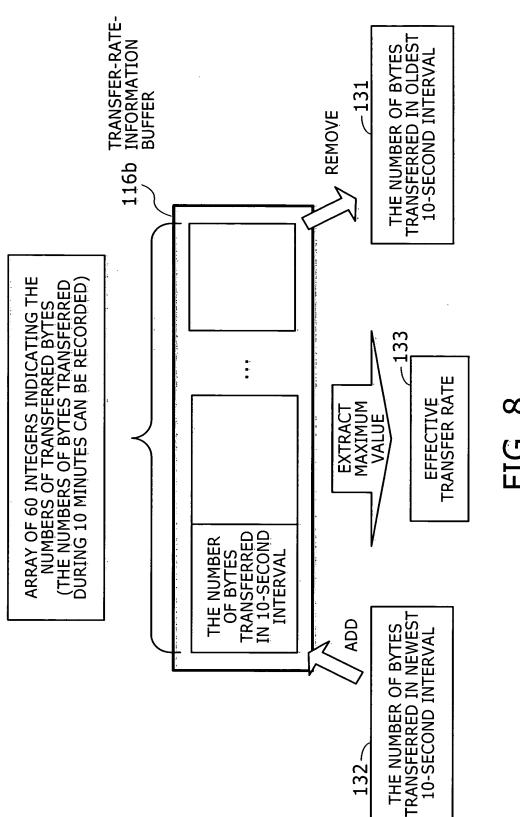
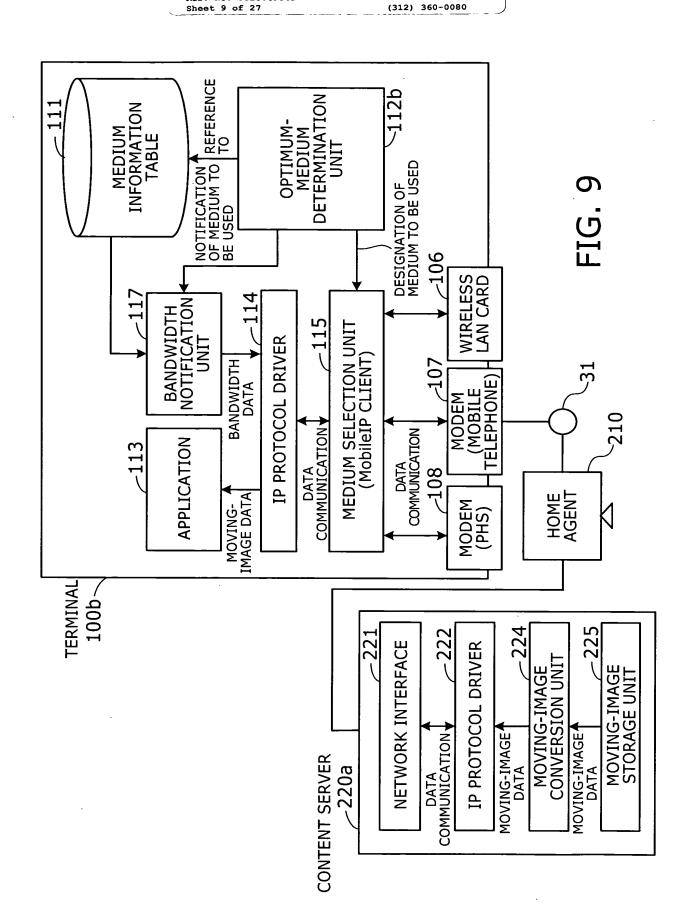


FIG. 8

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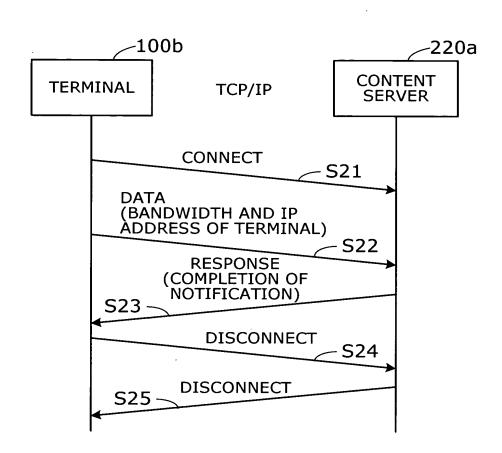
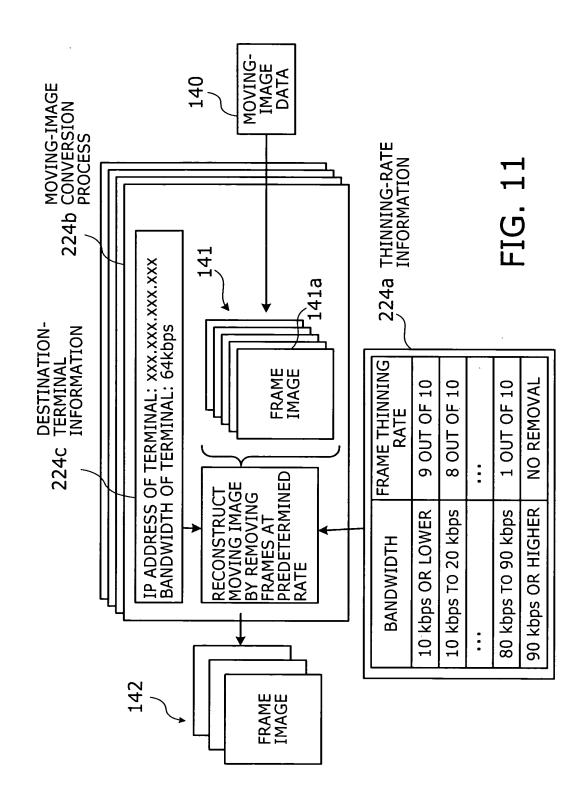


FIG. 10

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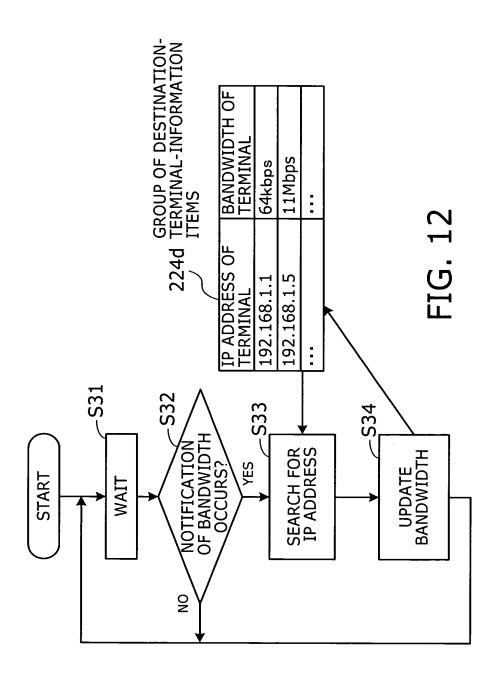
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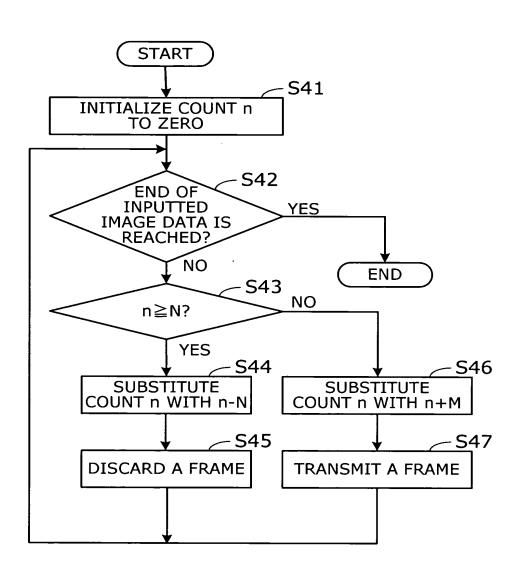


FIG. 13

112b REFERENCE TO DETERMINATION INFORMATION TABLE OPTIMUM-DESIGNATION OF MEDIUM TO BE USED MEDIUM MEDIUM LINO NOTIFICATION OF MEDIUM TO NOTIFICATION OF TRANSFER RATE 7106 WIRELESS LAN CARD -117a NOTIFICATION UNIT BANDWIDTH MEDIUM-TRANSFER-RATE MEASUREMENT UNIT -115-118MEDIUM SELECTION UNIT (MobileIP CLIENT) IP PROTOCOL DRIVER BANDWIDTH DATA ★ 107 (MOBILE TELEPHONE) MODEM DATA COMMUNICATION▼ DATA COMMUNICATION DATA COMMUNICATION **APPLICATION** 7108 MOVING- ► IMAGE DATA HOME AGENT MODEM (PHS) CONTENT SERVER TERMINAL 220a 100c EFFECTIVE TRANSFER RATE 20 kbps TABLE OF CORRESPONDENCES BETWEEN MEDIUMS AND EFFECTIVE TRANSFER RATES 6 kbps 4 Mbps -224 222 221 NETWORK INTERFACE IP PROTOCOL DRIVER CONVERSION UNIT MOVING-IMAGE STORAGE UNIT **MOVING-IMAGE** MODEM (MOBILE TELEPHONE) DATA COMMUNICATION MEDIUM NAME MOVING-IMAGE DATA **WIRELESS LAN** MOVING-IMAGE MODEM (PHS) CARD DATA -118a :

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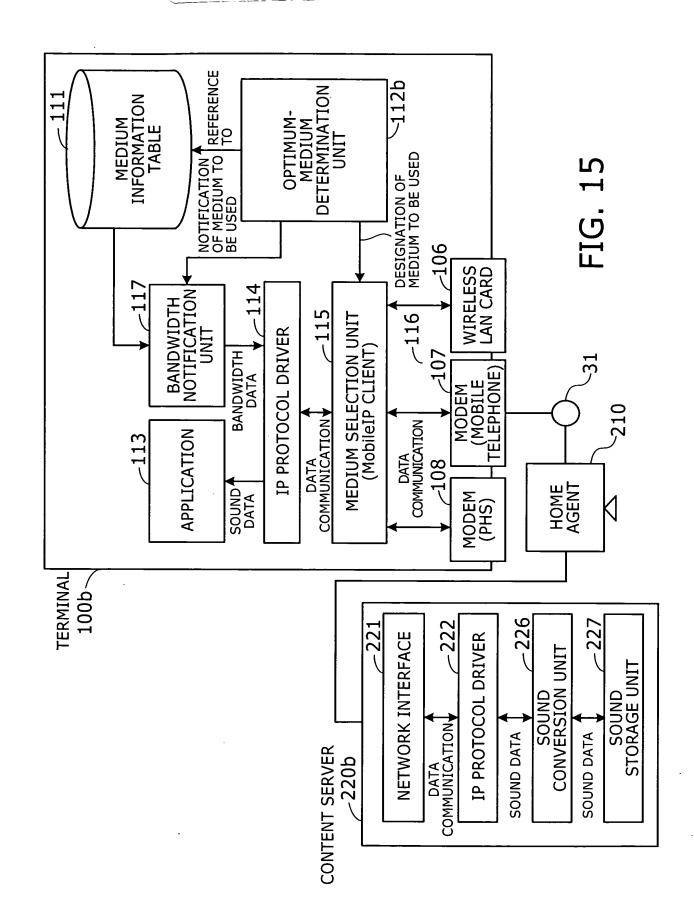
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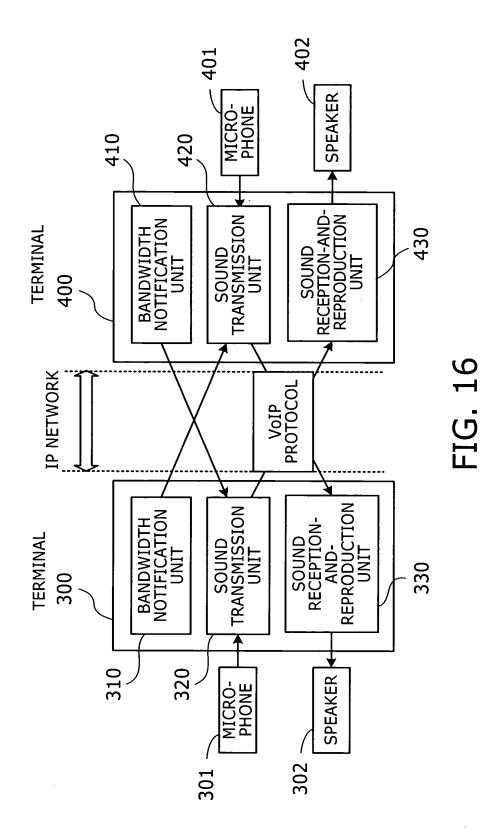
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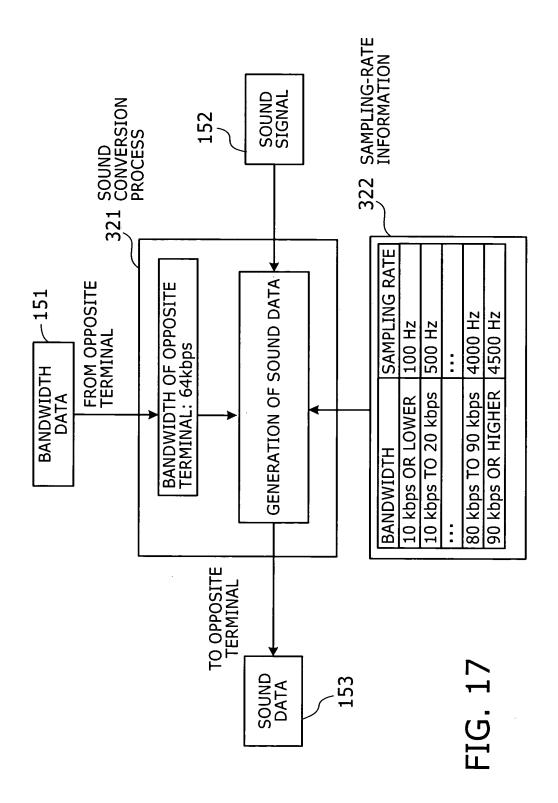
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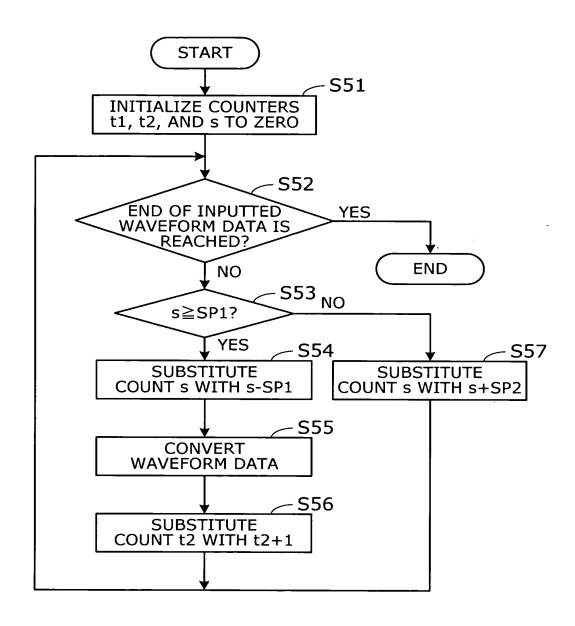


FIG. 18

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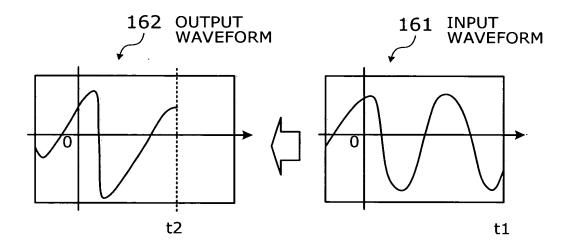


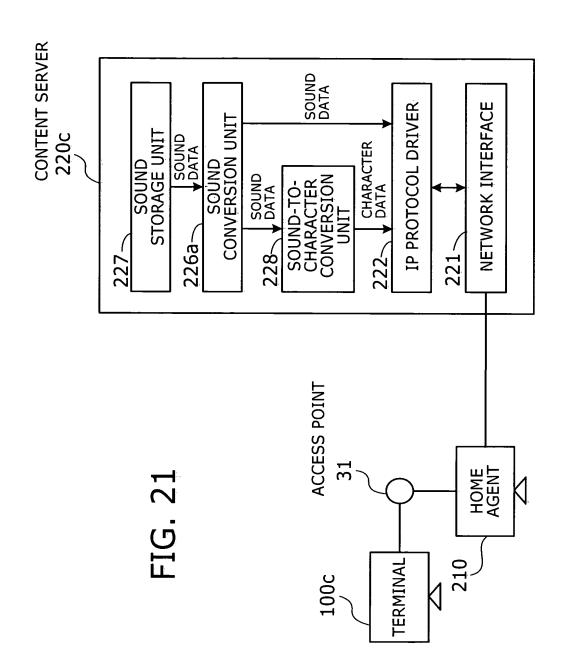
FIG.19

GREER, BURNS & CRAIN, (Patrick G. Ref. No. 0828.69843 Sheet 20 of 27 (312) 360-0080 REFERENCE TO DETERMINATION INFORMATION TABLE OPTIMUM-MEDIUM DESIGNATION OF $^{igstyle 1}$ MEDIUM TO BE USED MEDIUM LINO NOTIFICATION OF MEDIUM TO E FIG. 20 ACOUISITION OF TRANSFER RATE 7106 WIRELESS LAN CARD -117a 114 NOTIFICATION BANDWIDTH MEDIUM-TRANSFER-RATE MEASUREMENT UNIT -115 7118 MEDIUM SELECTION UNIT IP PROTOCOL DRIVER LIND 107 BANDWIDTH DATA (MobileIP CLIENT) (MOBILE TELEPHONE) MODEM DATA COMMUNICATION DATA COMMUNICATION DATA COMMUNICATION **APPLICATION** 108 HOME AGENT SOUND ' MODEM (PHS) CONTENT SERVER TERMINAL 220b 100c EFFECTIVE TRANSFER RATE TABLE OF CORRESPONDENCES BETWEEN MEDIUMS AND 6 kbps 20 kbps 4 Mbps 226 **EFFECTIVE TRANSFER RATES** -222 **NETWORK INTERFACE** IP PROTOCOL DRIVER SOUND CONVERSION UNIT STORAGE UNIT SOUND MODEM (MOBILE TELEPHONE) COMMUNICATION MEDIUM NAME WIRELESS LAN CARD MODEM (PHS) SOUND DATA SOUND DATA -118a :

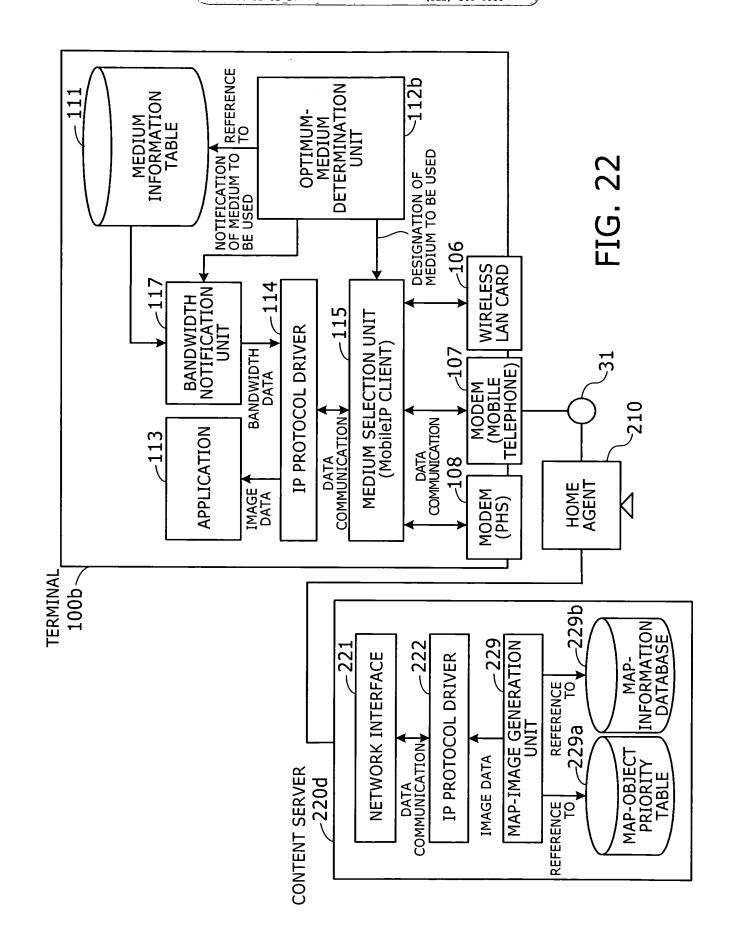
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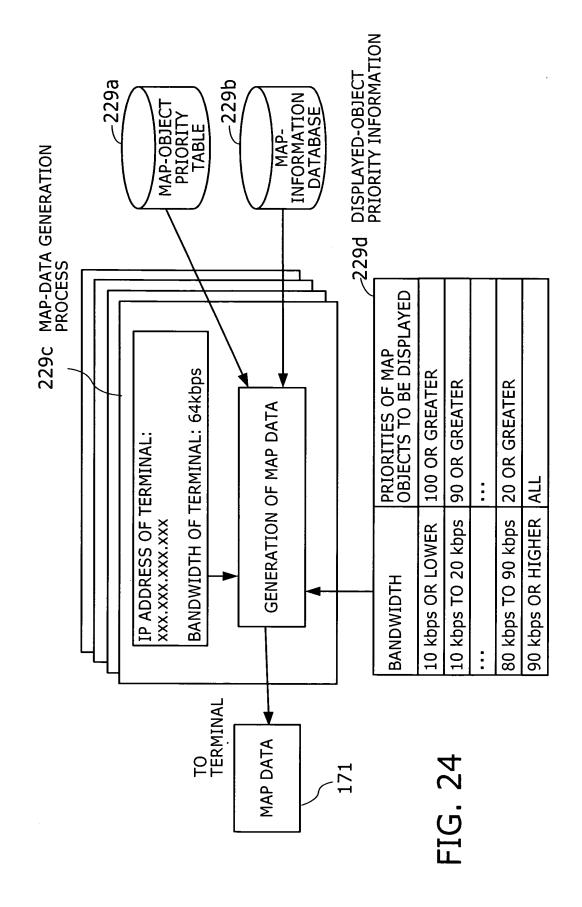
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22Qa	MAF	-OBIECT	PRIORITY	TARIF

ОВЈЕСТ	PRIORITY
PLACE NAME	121
BUILDING	110
RIVER	20
	••••

FIG. 23

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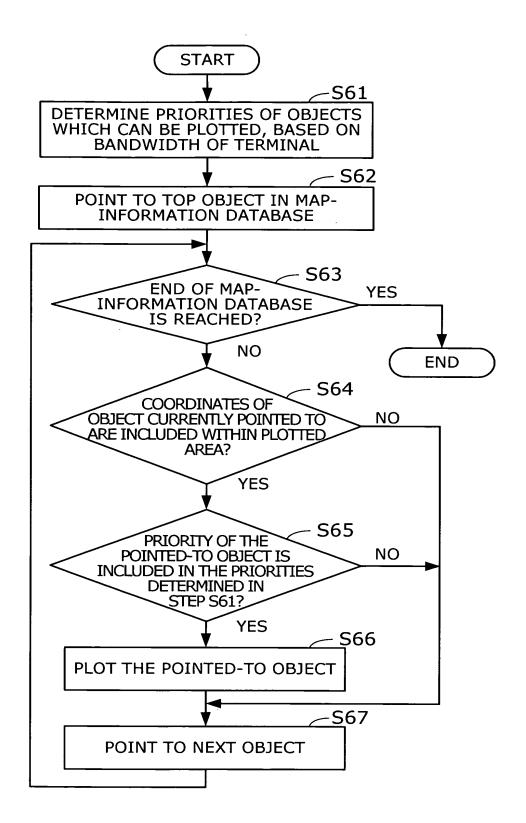


FIG. 25

Ref. No. 0828.69843 Sheet 26 of 27 (312) 360-0080 REFERENCE TO DESIGNATION OF 112b MEDIUM TO BE USED DETERMINATION UNIT INFORMATION MEDIUM **OPTIMUM** MEDIUM **TABLE** NOTIFICATION OF MEDIUM TO BE USED FIG. 26 NOTIFICATION OF TRANSFER RATE 7106 WIRELESS LAN CARD -117a NOTIFICATION BANDWIDTH MEDIUM-TRANSFER-RATE MEASUREMENT UNIT -118MEDIUM SELECTION UNIT IP PROTOCOL DRIVER LINN BANDWIDTH DATA (MobileIP CLIENT 107 (MOBILE TELEPHONE) MODEM DATA COMMUNICATION DATA COMMUNICATION DATA COMMUNICATION APPLICATION 7108 MAP DATA HOME AGENT MODEM (PHS) CONTENT SERVER **TERMINAL** 100c~ -220d -229b EFFECTIVE TRANSFER RATE INFORMATION DATABASE -222 TABLE OF CORRESPONDENCES BETWEEN MEDIUMS AND EFFECTIVE TRANSFER RATES 6 kbps 20 kbps MAP-IMAGE GENERATION 4 Mbps 221 **NETWORK INTERFACE** IP PROTOCOL DRIVER MAP-REFERENCE TO -229a COMMUNICATION MODEM (MOBILE TELEPHONE) MAP-OBJECT PRIORITY TABLE MEDIUM NAME WIRELESS LAN CARD MODEM (PHS) MAP DATA -118a REFERENCE TO

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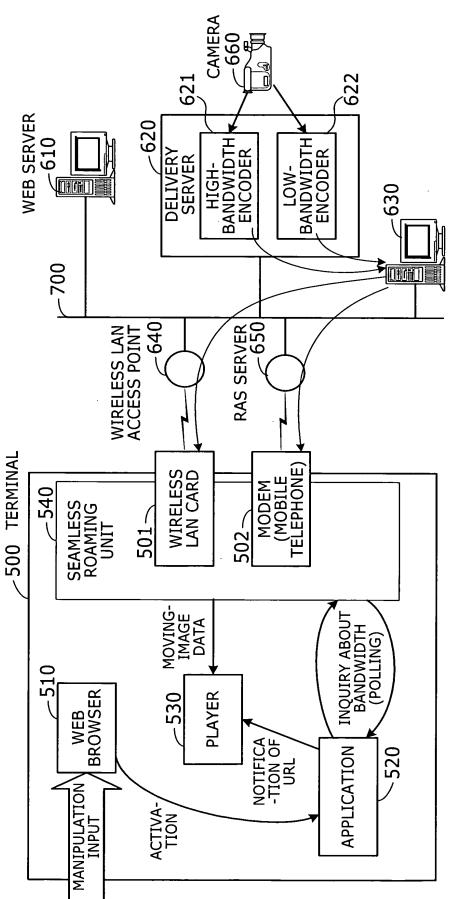


FIG. 27

HOME AGENT